



PATENT
Customer No. 22,852
Attorney Docket No. 08372.0007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) **RECEIVED**
Yutaka ARIMA) Group Art Unit: 2121 **NOV 15 2004**
Application No.: 10/086,544) Examiner: J. Hirl **Group 2100**
Filed: March 4, 2002)
For: A COMPUTER DEVICE BASED) Confirmation No.: 2264
ON ASSOCIATIVE MEMORY)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97(c)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicant brings to the attention of the Examiner the documents listed on the attached Form PTO/SB/08. This Supplemental Information Disclosure Statement is being filed after the events recited in Section 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final action, Quayle action, or a Notice of Allowance. Under the provisions of 37 C.F.R. § 1.97(c), this Supplemental Information Disclosure Statement is accompanied by a fee of \$180.00 as specified by Section 1.17(p). Copies of all listed documents are enclosed.

Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

11/08/2004 SDENB0B1 00000002 10086544
02 FC:1806 180.00 0P

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claims in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any additional fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

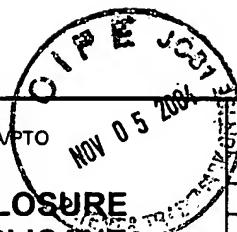
Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: November 5, 2004

By:  Reg. No. 43,592 for:
David W. Hill
Reg. No. 28,220

Complete if Known



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

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Attorney Docket Number

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Group 2100

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS

Note: Copies of the U.S. Patent Documents are not Required in IDS filed after October 21, 2004

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation ⁸
		YUTAKA ARIMA, "Higher Integration of Neural Network with Learning Function," Study of Associative Memory Analog Neural Network LSI with Learning Function (January 1998).	✓
		"Chaos and Associative Memory," Computer Today (July 1999).	✓
		YUTAKA ARIMA, et al., "A Self Learning Neural Network Chip with 125 Neurons and 10K Self-Organization Synapses," 26 IEEE Journal of Solid-State Circuits 607 (April 1991).	
		YUTAKA ARIMA, et al., "A 336-Neuron, 28K-Synapse, Self-Learning Neural Network Chip with Branch-Neuron-Unit Architecture," 26 IEEE Journal of Solid-State Circuits 1637 (November 1991).	
		YUTAKA ARIMA, et al., "A Refreshable Analog VLSI Neural Network Chip with 400 Neurons and 40K Synapses," 27 IEEE Journal of Solid-State Circuits 1854 (December 1992).	

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO Notes regarding this form:

¹ Applicant's unique citation designation number (optional).

² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**